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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNLY DOCKET NO	CONFIRMATION NO.
10 046,915	01.17.2002	Yakov Roizin	P-4521-US	3381
751	ni (14 m) 7003			
Eitan, Pearl, Latzer & Cohen-Zedek One Crystal Park, Suite 210 2011 Crystal Drive			EXAMINER	
			BOOTH, RICHARD A	
Arlington, VA 22202-3709			ART UNIT	PAPER NUMBER
			2812	
			DATE MAILUS, 01 01 2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/046,915	ROIZIN ET AL.			
		Examiner	Art Unit			
		Richard A. Booth	2812			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U S C. § 133) - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1)[Responsive to communication(s) filed on 26 F	ebruary 2003 .				
2a)□	This action is FINAL . 2b)⊠ Thi	s action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
·						
4) Claim(s) 1-24 is/are pending in the application.						
4a) Of the above claim(s) <u>17-24</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) <u>1-16</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement. Application Papers						
	The specification is objected to by the Examiner					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
· · · · ·						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
Attachment(s)						
21 Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) lation Disclosure Statement(s) (PTO-1449) Paper No(s) 4		ary: PTO-413 Paper No.s al Patent Application (PTO-152			

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jong et al., U.S. Patent 6,348,381.

Jong et al. shows the invention substantially as claimed including a method for forming an oxide-nitride-oxide layer 208 comprising a bottom oxide layer 202, a top oxide layer 206, and a nitride layer 204 intermediate said bottom and top oxide layers, wherein the top oxide layer has a thickness in the range of 75 to 115 angstroms, the

layer has a thickness in the range of 35 to 75 angstroms. Furthermore, note that the

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reference discloses that the top oxide is thicker than the bottom oxide and the nitride layer (see Figs. 2-7 and col. 2-line 64 to col. 4-line 32).

Jong et al. does not expressly disclose the exact ranges of thicknesses both in absolute terms and in relative terms with respect to other layers. However, a prima facie case of obviousness exists because overlapping ranges have been shown with respect to, for instance, the amount at which the top oxide layer is thicker than the bottom oxide and the nitride layer and therefore a prima facie case of obviousness exists. Note that because of these disclosed thicknesses, inherently the managing movement step of claim 1, decreasing capacitance step of claim 10, increasing and decreasing threshold voltage steps of claims 11-12, narrowing step of claim 13, improving matching step of claim 14, enabling reduction step of claim 15, and controlling operating voltage step of claim 16 are all inherent with respect to the Jong et al. reference since a prima facie case of obviousness has been made with respect to the relative and absolute thicknesses of the ONO layers.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard A. Booth whose telephone number is 308-3446. The examiner can normally be reached on Monday-Thursday from 7:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

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the organization where this application or proceeding is assigned are 308-7724 for regular communications and 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 308-1782.

Richard A. Booth Primary Examiner Art Unit 2812

March 27, 2003